

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 May 2004 (21.05.2004)

PCT

(10) International Publication Number
WO 2004/041409 A1

(51) International Patent Classification⁷: **B01D 35/147**

[KR/KR]; 305-301, SonggangGreen Apt., 199, Songgang-dong, Yuseong-gu, 305-503 Daejeon (KR).

(21) International Application Number:

PCT/KR2003/002316

(74) Agent: **PARK, Cheon-Soo**; Vniel B/D 2F, 1362-9, Seocho-Dong, Seocho-Gu, 137-070 Seoul (KR).

(22) International Filing Date: 31 October 2003 (31.10.2003)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:

10-2002-0069364

8 November 2002 (08.11.2002) KR

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(71) Applicant (*for all designated States except US*): **RHEE, Tae-Hee** [KR/KR]; 68-135, Bakdal-dong, Manan-gu, Anyang-si, 430-030 Kyeonggi-do (KR).

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant and

(72) Inventor: **KANG, Won-Seok** [KR/KR]; 105-1004, Sadang LG Apt., 1139, Sadang-dong, Dongjak-gu, 156-090 Seoul (KR).

(72) Inventor; and

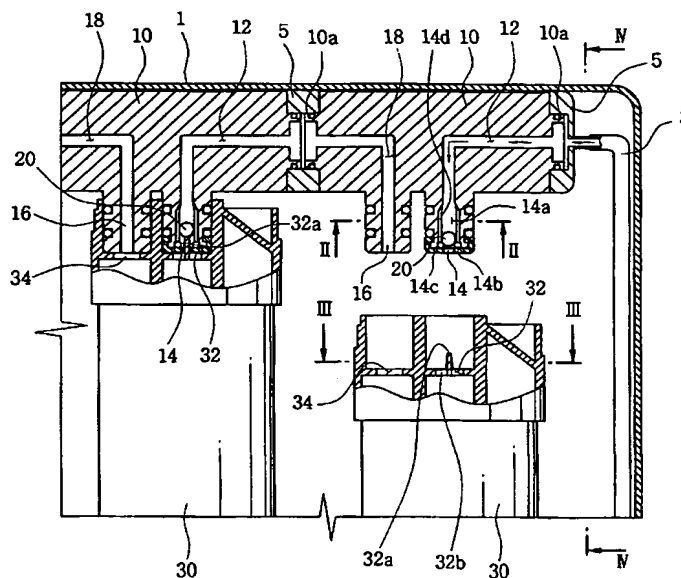
(75) Inventor/Applicant (*for US only*): **LIM, Keun-Won**

Published:

— with international search report

[Continued on next page]

(54) Title: **WATER SHUT-OFF DEVICE FOR A WATER PURIFIER**



(57) **Abstract:** A water shut-off device for a water purifier that assures automatic blocking of water flow at the time of changing of a used filter comprises a connector having a water inlet passageway and a first connector port in communication with the inlet passageway, the first connector port provided with a valve chamber. A valve body is movably fitted into the valve chamber for selectively closing and opening the first connector port. Removably coupled to the connector is a filter which has an inlet port connectable to the first connector port of the connector, a filter element, an outlet port and a pusher for, when the inlet port is brought into connection with the first connector port, causing the valve body to move into a position wherein the first connector port is opened to allow water flow.